

**Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Short Tons.**

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**Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006;
Level: National Data and Regional Totals;
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		Coal		Alternative Energy Sources(b)						
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(e)
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	231	Q	173	0	Q	0	0	0	0
336111	Automobiles	88	3	85	0	3	0	0	0	0
336112	Light Trucks and Utility Vehicles	54	0	54	0	0	0	0	0	0
3364	Aerospace Product and Parts	14	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	114	86	29	0	39	0	15	0	Q
339	Miscellaneous	0	0	0	0	0	0	0	0	0
	Total	45,729	10,660	28,935	543	7,602	1,765	1,828	347	928

Northeast Census Region

311	Food	0	0	0	0	0	0	0	0
3112	Grain and Oilseed Milling	0	0	0	0	0	0	0	0
311221	Wet Corn Milling	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	0	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	0	0	0	0	0	0	0	0
3115	Dairy Products	0	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	0	0	0	0	0	0	0	0
3121	Beverages	0	0	0	0	0	0	0	0
3122	Tobacco	0	0	0	0	0	0	0	0
313	Textile Mills	0	0	0	0	0	0	0	0
314	Textile Product Mills	Q	Q	0	0	Q	0	0	0
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0
321	Wood Products	0	0	0	0	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	0	0	0	0	0	0	0	0
3219	Other Wood Products	0	0	0	0	0	0	0	0
322	Paper	677	494	184	1	58	146	405	57
322110	Pulp Mills	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	639	494	146	1	58	146	405	57
322122	Newsprint Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	0	0	0	0	0	0	0	0
323	Printing and Related Support	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	103	7	96	7	7	0	0	0
324110	Petroleum Refineries	34	0	34	0	0	0	0	0
324199	Other Petroleum and Coal Products	69	7	62	7	7	0	0	0
325	Chemicals	711	384	327	0	131	253	0	0
325110	Petrochemicals	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	0	0	0	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	0	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	0	0	0	0	0	0	0	0
325212	Synthetic Rubber	0	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	0	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	711	384	327	0	131	253	0	0
326	Plastics and Rubber Products	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	1,763	33	1,579	0	33	0	0	0
327211	Flat Glass	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	Q	Q	0	0	0	0	0	0
327310	Cements	1,464	0	1,312	0	0	0	0	0
327410	Lime	126	0	126	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0
331	Primary Metals	132	37	95	0	31	16	0	6
331111	Iron and Steel Mills	2	1	1	0	0	0	0	1
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0	0	0	0	0

Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006;**Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Thousand Short Tons.**

NAICS Code(a)	Subsector and Industry	Coal		Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(e)
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0
327310	Cements	2,214	W	W	0	203	0	11	0	45
327410	Lime	1,516	W	W	0	232	0	0	0	82
327420	Gypsum	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0
331	Primary Metals	581	390	94	0	390	0	0	0	0
331111	Iron and Steel Mills	475	381	94	0	381	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	97	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	10	10	0	0	10	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	0	0	0	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	0	0	0	0	0	0	0	0	0
333	Machinery	54	28	26	9	19	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	204	Q	160	0	Q	0	0	0	0
336111	Automobiles	75	3	72	0	3	0	0	0	0
336112	Light Trucks and Utility Vehicles	54	0	54	0	0	0	0	0	0
3364	Aerospace Product and Parts	0	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	59	41	18	0	39	0	15	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0	0
	Total	18,143	4,542	9,935	230	4,211	626	224	290	270

South Census Region

311	Food	534	37	479	0	37	0	0	0	0
3112	Grain and Oilseed Milling	449	37	394	0	37	0	0	0	0
311221	Wet Corn Milling	276	37	238	0	37	0	0	0	0
31131	Sugar Manufacturing	85	0	85	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	0	0	0	0	0	0	0	0	0
3115	Dairy Products	0	0	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	333	119	214	0	97	95	30	0	0
3121	Beverages	150	Q	126	0	Q	0	0	0	0
3122	Tobacco	183	95	88	0	73	95	30	0	0
313	Textile Mills	1,428	Q	1,098	0	Q	0	0	0	0
314	Textile Product Mills	Q	32	Q	0	32	20	0	0	0
315	Apparel	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0	0
321	Wood Products	29	0	Q	0	0	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	29	0	Q	0	0	0	0	0	0
3219	Other Wood Products	0	0	0	0	0	0	0	0	0
322	Paper	5,785	1,609	4,006	99	715	296	709	0	433
322110	Pulp Mills	278	0	278	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	2,762	718	1,978	6	233	179	248	0	70
322122	Newsprint Mills	30	0	0	0	0	0	0	0	0
322130	Paperboard Mills	2,715	891	1,751	92	482	117	461	0	362
323	Printing and Related Support	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	0	0	0	0	0	0	0	0	0
324110	Petroleum Refineries	0	0	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0	0	0
325	Chemicals	3,601	709	2,223	207	329	35	191	0	0
325110	Petrochemicals	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	444	0	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	269	168	19	168	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	1,929	303	1,484	0	303	0	0	0	0
325211	Plastics Materials and Resins	222	0	222	0	0	0	0	0	0

Released: June 2010
 Next MECS will be conducted in 2010
Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Short Tons.

		Coal		Alternative Energy Sources(b)						
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(e)
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0	0	0
325	Chemicals	1,029	26	297	0	26	0	0	0	0
325110	Petrochemicals	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	297	0	297	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	732	26	0	0	26	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	0	0	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	0	0	0	0	0	0	0	0	0
325212	Synthetic Rubber	0	0	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	0	0	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	0	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	2,995	703	2,292	0	642	36	0	0	26
327211	Flat Glass	0	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0
327310	Cements	2,442	W	W	0	625	0	0	0	26
327410	Lime	553	W	W	0	16	36	0	0	*
327420	Gypsum	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0
331	Primary Metals	0	0	0	0	0	0	0	0	0
331111	Iron and Steel Mills	0	0	0	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	0	0	0	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	0	0	0	0	0	0	0	0	0
333	Machinery	0	0	0	0	0	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	0	0	0	0	0	0	0	0	0
336111	Automobiles	0	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	0	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0	0
	Total	5,688	909	4,073	0	811	36	0	0	63
Economic Characteristic (f)										
Value of Shipments and Receipts (million dollars)										
	Under 20	925	115	771	0	106	0	0	0	9
	20-49	4,182	590	2,475	7	442	131	62	19	112
	50-99	7,007	1,591	4,296	0	1,463	114	47	0	63
	100-249	11,829	3,291	8,317	28	2,525	874	68	57	302
	250-499	10,971	2,447	5,384	136	1,305	206	1,107	271	354
	500 and Over	10,815	2,626	7,692	371	1,761	441	544	0	88
	Total	45,729	10,660	28,935	543	7,602	1,765	1,828	347	928
Employment Size										
	Under 50	1,430	118	1,312	0	90	23	0	0	5
	50-99	2,879	373	2,207	0	302	104	0	19	0
	100-249	15,210	3,926	7,569	34	3,302	744	120	0	353

Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Short Tons.

NAICS Code(a)	Subsector and Industry	Coal		Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(e)
	250-499	10,956	1,937	8,407	102	1,441	370	182	57	119
	500-999	8,205	2,451	4,419	37	1,353	364	997	271	363
	1000 and Over	7,050	1,855	5,020	371	1,113	161	529	0	88
	Total	45,729	10,660	28,935	543	7,602	1,765	1,828	347	928

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).

(b) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for coal during 2006. The quantities are expressed in thousands of short tons, and therefore represent the quantity of coal that could have been displaced by the given alternative type of energy.

(c) 'Total Consumed' represents those quantities (Total Inputs) of coal that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.

(d) 'Electricity Receipts' represents those quantities of electricity generated off the manufacturing establishment site and available at the site for consumption. It includes those quantities for which payment was made, quantities transferred in, quantities purchased and paid for by a central purchasing entity, and quantities for which payment was made in kind. It does not include electricity generated onsite. 'Electricity Receipts' has not been adjusted to account for any quantities that might have been resold or transferred out. The estimates include those quantities that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.

(e) 'Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of coal.

(f) Value of Shipments and Receipts and Employment Size categories were supplied by the Bureau of the Census.

NF=No applicable RSE row/column factor.

* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

NA=Not available.

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'